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Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL  
for FY 2005**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 170**Complete if Known**

Application Number	10/754,325
Filing Date	January 9, 2004
First Named Inventor	Oberg, Mats et al
Examiner Name	To Be Assigned
Art Unit	2124
Attorney Docket No.	MP0079.C1I

**METHOD OF PAYMENT** (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 08-0750 Deposit Account Name: Harness, Dickey & Pierce, P.L.C.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments  
Under 37 CFR 1.16 and 1.17

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 (including Reissues)  
Each independent claim over 3 (including Reissues)  
Multiple dependent claims

	Small Entity Fee (\$)	Fee (\$)
_____	50	25
_____	200	100
_____	360	180

Total Claims	Extra Claims	Fee(\$)	Fee Paid (\$)
_____ -20 or HP= 0	x _____	= 0	

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee(\$)	Fee Paid (\$)
_____ - 3 or HP= 0	x _____	= 0	

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ -	= 0	/ 50 = 0 (round up to a whole number) x	= 0	

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Petition Fee and Recordation Fee

170

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	34,754	Telephone	(248)641-1600
Name (Print/Type)	Michael D. Wiggins	Date	February 1, 2006		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXPRESS MAIL LABEL NO. EV 717 340 002 US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/754,325  
Filing Date: January 9, 2004  
Applicant: Oberg et al.  
Group Art Unit: 2124  
Examiner: CHAKI, KAKALI  
Title: THERMAL ASPERITY COMPENSATION IN  
PERPENDICULAR RECORDING  
Attorney Docket: MP0079.C1I

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Assistant Commissioner for Patents  
Washington, D.C. 20231

**AMENDMENT, PETITION, AND FEE TO ADD AN INVENTOR**

1. This amendment and petition is to add an inventor in the declaration under 37 C.F.R. § 1.48(a) as set forth and filed on 1/9/2004.
2. ADDITION AND/OR DELETION OF INVENTOR:

☒ Add the following previously unnamed person as inventor of this application:  
**INVENTOR NAME:** Pantas Sutardja  
**ADDRESS:** 18690 Blythswood Drive  
**CITY, STATE ZIP:** Los Gatos, California 95030  
**CITIZENSHIP:** US

02/03/2006 HTECKLU1 00000005 10754325

01 FC:1051

130.00 0P

3. ATTACHMENTS:

Attached is:

- ☒ (a) A statement from:
- ☒ each person being added as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 C.F.R. § 1.48(a)(1).
  - ☐ each person being deleted as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 C.F.R. § 1.48(a)(1).
- ☒ (b) A declaration by each of the actual inventor(s) as required by 37 C.F.R. § 1.63 (or as permitted by §§1.42, 1.43, OR 1.47). 37 C.F.R. § 1.48(a)(2).
- ☒ (c) Written assent of the assignee (*if any of the original inventors executed an assignment*) 37 C.F.R. 1.48(a)(4)
- ☐ (d) Check the following item, if all the inventor(s) remaining after this petition and amendment is accepted are not the inventor(s) of the subject matter of all the claim(s) now being claimed.)
- ☐ Attached is an explanation of the facts, including the ownership of all the claim(s) being claimed in this application, including the ownership of all the claim(s) at the time the last claimed invention was made (Declaration of Inventorship and Common Ownership of Claims in Application).

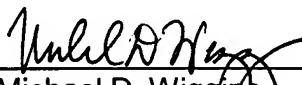
4. FEE PAYMENT: (37 C.F.R. § 1.17(ii))

The fee required is paid as follows:

- ☒ Enclosed is a credit card authorization for \$170.00 (\$130-petition fee; \$40-assignment recordal fee).
- ☒ Charge Account No. 08-0750 for any fee deficiency.
- ☐ Charge Account No. 08-0750 the sum of \$170.00 (\$130-petition fee; \$40-assignment recordal fee).

Respectfully submitted,

Date: February 1, 2006

By:   
Michael D. Wiggins  
Reg. No. 34,754

Harness, Dickey & Pierce, P.L.C.  
P.O. Box 828  
Bloomfield Hills, MI 48303  
248-641-1600



EXPRESS MAIL LABEL NO. EV 717 340 002 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/754,325  
Filing Date: January 9, 2004  
Applicant: Oberg et al.  
Group Art Unit: 2124  
Examiner: CHAKI, KAKALI  
Title: THERMAL ASPERITY COMPENSATION IN  
PERPENDICULAR RECORDING  
Attorney Docket: MP0079.C11

Assistant Commissioner for Patents  
Washington, D.C. 20231

STATEMENT OF LACK OF DECEPTIVE INTENTION  
[37 CFR § 1.48(a)(1)]

The inventorship error of failing to include **Pantas Sutardja** as a joint inventor in U.S. Application No. 10/754,325 occurred without any deceptive intention on the part of the Applicants.

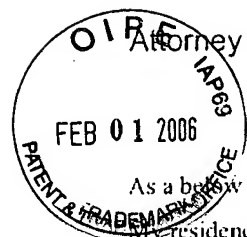
Added Joint Inventor: **Pantas Sutardja**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1/12/06

Residence: 18690 Blythswood Drive  
City, State, Zip: Los Gatos, California 95030  
Citizenship: US



Attorney Docket No. MP0079.C11

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**Thermal Asperity Compensation In Perpendicular Recording System**

as described and claimed in the specification which

is attached hereto

☒ was filed on January 9, 2004 as Application Serial No. 10/754,325 or Express Mail No. \_\_\_ as Serial No. not yet known and was amended on \_\_\_ (if applicable).

☐ was set forth in PCT International Application No. \_\_\_ which was filed on \_\_\_ and as amended under PCT Article 19 on (if any).

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U. S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

☐ In compliance with this duty, there is attached an Information Disclosure Statement, 37 CFR 1.97.

I hereby claim foreign priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate or §365(a) of any PCT International application(s) which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed.

☐ No such Applications have been filed.

☐ Such Applications have been filed as follows:

Prior Foreign Application(s)

Priority Claimed

Application Number

Country

Day/Month/Year Filed

Yes

No

☐☐

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

☐ No such Applications have been filed.

☒ Such Applications have been filed as follows:

Provisional Application(s)

Priority Claimed Under 35 USC 119(e)

Application Number

Day/Month/Year Filed

60/487,693

16/07/2003

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

☐ No such Applications have been filed.

☒ Such Applications have been filed as follows:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u> (Patented, Pending, Abandoned)
09/850,039	May 7, 2001	Pending
10/612,400	July 2, 2003	Pending

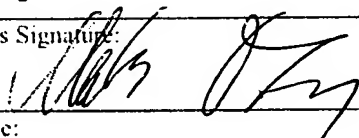
I hereby appoint

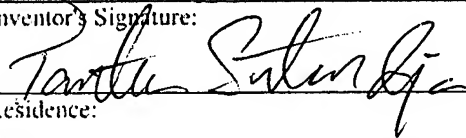
Eric B. Janofsky (Registration No. 30,759); Michael D. Wiggins (Registration No. 34,754); Donald J. Daley (Registration No. 34,313); David P. Utykanski (Registration No. 39,052); Joseph M. Lafata (Registration No. 37,166); and Richard W. Warner (Registration No. 38,043).


as my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. Send all correspondence to

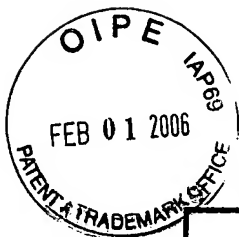
Customer No. 23624  
 General Patent Counsel  
 Marvell Semiconductor, Inc.  
 700 First Avenue, Mail Stop 509  
 Sunnyvale, CA 94089  
 General Telephone Number (408) 222-2500  
 Facsimile (408) 752-9034

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor:	
Mats Oberg	
Inventor's Signature:	Date: Month/Day/Year
	6/16/06
Residence:	
20211 Patric Court, Cupertino, CA 95014, US	
Citizenship:	
SE	
Post Office Address:	
20211 Patric Court, Cupertino, CA 95014, US	

Full Name of Sole/First Inventor: Pantas Sutardja	
Inventor's Signature: 	Date: Month/Day/Year 1/12/06
Residence: 18690 Blythswood Drive, Los Gatos, California 95030	
Citizenship: US	
Post Office Address: 18690 Blythswood Drive, Los Gatos, California 95030	

Full Name of Sole/First Inventor: Runsheng He	
Inventor's Signature: 	Date: Month/Day/Year 1/11/06
Residence: 874 Pecan Ct., Sunnyvale, CA 94087, US	
Citizenship: CN	
Post Office Address: 874 Pecan Ct., Sunnyvale, CA 94087, US	



PTO/SB/98 (06-04)  
Approved for use through 07/31/2008 OMB 0651-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
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### STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Mats Oberg et al.

Application No./Patent No.: 10/754,325

Filed/Issue Date: January 9, 2004

Entitled: THERMAL ASPERITY COMPENSATION IN PERPENDICULAR RECORDING

Marvell International, Ltd.

a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Mats Oberg and Runsheng He To: Marvell Semiconductor, Inc.  
The document was recorded in the United States Patent and Trademark Office at  
Reel 014833, Frame 0176, or for which a copy thereof is attached.

2. From: Marvell Semiconductor, Inc. To: Marvell International, Ltd.  
The document was recorded in the United States Patent and Trademark Office at  
Reel 014833, Frame 0176, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

**NOTE:** A separate copy (i.e., a true copy of the original document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

CAROL FEATHERS

Printed or Typed Name

JAN 16 2006

Date

441 2983580

Telephone Number

GENERAL MANAGER

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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